# Cytometer Performance Report

| | | | |
|---|---|---|---|
| Cytometer: | FACSCantoII | User: | Administrator |
| Cytometer Name: | FACSCantoII | Institution: | N/A |
| Serial Number: | V33896201821 | Software: | BD FACSDiva 8.0.2 |
| Input Device: | Carousel | Date: | 06/07/2022 10:25 AM |
| Tube Loaded Manually: | Yes | Cytometer Baseline: | 06/07/2022 10:19 AM |
| Cytometer Configuration: | Euroflow 3-laser, 8-color (4-2-2) | P/F: | Pass |

## Setup Beads

| | | | |
|---|---|---|---|
| Bead Product: | CST Setup Beads | Part #: | 910859 |
| Lot ID: | 10398 | Expiration Date: | 01/31/2023 |
| Bead Lot Information: | Available | | |

## Detector Settings

| Laser | Detector | Parameter | Target Value | Actual Target Value | % Difference Target Value | Bright Bead % Robust CV | Mid Bead Median Channel | Mid Bead % Robust CV |
|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 125000 | 124432 | -1 | 1.36 | 124369 | 1.28 |
| Blue | F | SSC | 125000 | 124359 | -1 | 3.02 | 124932 | 2.83 |
| Blue | E | FITC | 15860 | 15437 | -3 | 2.28 | 377 | 13.48 |
| Blue | D | PE | 27718 | 27382 | -2 | 1.73 | 637 | 9.97 |
| Blue | B | PerCP-Cy5-5 | 38046 | 37487 | -2 | 3.02 | 1028 | 14.62 |
| Blue | A | PE-Cy7 | 26092 | 25686 | -2 | 4.94 | 505 | 30.15 |
| Red | C | APC | 49104 | 48396 | -2 | 2.67 | 1697 | 11.61 |
| Red | A | APC-Cy7 | 28201 | 27167 | -4 | 3.11 | 716 | 12.50 |
| Violet | B | V450 | 9904 | 9322 | -6 | 3.69 | 519 | 11.49 |
| Violet | A | V500 | 39004 | 37329 | -5 | 3.21 | 978 | 8.69 |

## Detector Settings (Continued)

| Laser | Detector | Parameter | Dim Bead Median Channel | Dim Bead % Robust CV | PMTV | Δ PMTV | Qr | Br | P/F |
|---|---|---|---|---|---|---|---|---|---|
| Blue | FSC | FSC | 24130 | 1.67 | 560 | -9 | N/A | N/A | Pass |
| Blue | F | SSC | 55541 | 1.51 | 520 | -8 | N/A | N/A | Pass |
| Blue | E | FITC | 58 | 54.24 | 489 | -2 | 0.0489 | 98 | Pass |
| Blue | D | PE | 124 | 37.49 | 495 | -1 | 0.4852 | 351 | Pass |
| Blue | B | PerCP-Cy5-5 | 142 | 44.48 | 587 | -2 | 0.0208 | 100 | Pass |
| Blue | A | PE-Cy7 | 64 | 92.25 | 630 | -2 | 0.0223 | 2 | Pass |
| Red | C | APC | 324 | 27.01 | 580 | -1 | 0.0267 | 139 | Pass |
| Red | A | APC-Cy7 | 96 | 42.62 | 552 | -3 | 0.0060 | 1059 | Pass |
| Violet | B | V450 | 84 | 47.66 | 463 | 5 | 0.0557 | 1879 | Pass |
| Violet | A | V500 | 122 | 31.60 | 475 | 6 | 0.0255 | 1073 | Pass |

## Specifications

| | |
|---|---|
| PMTV Delta from baseline: | 50 (BD) |
| Violet Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Blue Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |
| Red Laser Primary Channel Bright Bead %Robust CV: | 6.00 (Recommended) |

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| Input Device: | Carousel | Date: | 06/07/2022 10:25 AM |
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## Laser Settings

| Laser | Power (mW) | Power Spec. (mW) | Current (mA) | Current Guidelines (mA) | Delay (Trigger on FSC) | Delay (Trigger on Fluorescence) | Area Scaling Factor |
|---|---|---|---|---|---|---|---|
| Violet | 59.55 | 47.64 - 71.46 | N/A | N/A | -32.07 | -31.77 | 1.01 |
| Blue | 20.34 | 16.28 - 24.42 | 1.28 | 1.03 - 1.55 | 0.00 | 0.00 | 1.43 |
| Red | 14.39 | 13.90 - 20.86 | N/A | N/A | 30.11 | 30.35 | 1.21 |

Window Extension: 7.00
FSC Area Scaling Factor: 0.76

## Threshold

Threshold (FSC): 10546

## Fluidics

FACSFlow Pressure: 3.90 Sample Pressure: 3.70
Spec.: 3.80 - 4.00

Comments